

Appl. No. 10/608,741

Reply to Office Action of March 2, 2006

IN THE CLAIMS

1-4. (Cancelled).

5. (Currently Amended) A high frequency interconnect comprising The high frequency interconnect of claim 4:

a dielectric sleeve;

a compressible bellows interconnect fitted within said dielectric sleeve, wherein said compressible bellows interconnect comprises a layer of nickel alloy[[:]] and a layer of gold;

a conductive elastomeric gasket shielding a portion of said compressible bellows interconnect, said conductive elastomeric gasket electrically connecting one or more components in contact with said conductive elastomeric gasket to reduce radio frequency coupling with one or more additional interconnects;

a first cap coupled to a first end of said compressible bellows interconnect having a first major surface coupling to said first end of said compressible bellows interconnect and a second major surface for coupling to a first component; and

a second cap coupled to a second end of said compressible bellows interconnect having a first major surface coupling to said second end of said compressible bellows interconnect and a second major surface for coupling to a second component. wherein said first cap includes a pin extending from said second major surface for coupling to said first component wherein said compressible bellows interconnect is cylindrical in shape.

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6. (Original) The high frequency interconnect of claim 5 wherein said dielectric sleeve is formed having a first section having a first diameter and a second section having a second diameter.
7. (Original) The high frequency interconnect of claim 6 wherein said dielectric sleeve includes a feature for holding at least one conductive elastomeric gasket.
8. (Original) The high frequency interconnect of claim 7 further including a first feature for holding said conductive elastomeric gasket in said second section of said dielectric sleeve wherein said second diameter is greater than said first diameter and wherein a length of said conductive elastomeric gasket extends above and below said second section of said dielectric sleeve.
9. (Original) The high frequency interconnect of claim 8 wherein said conductive elastomeric gasket comprises a silver filled silicone rubber.
10. (Original) The high frequency interconnect of claim 9 wherein said conductive elastomeric gasket comprises a silver plated bead filled silicone rubber.
11. (Original) The high frequency interconnect of claim 10 wherein said first component and said second component are compressed together placing said first cap in intimate contact with said first component and said second cap in intimate contact with said second component and wherein said compressible bellows interconnect acts as a spring to maintain said first and second caps respectively in intimate contact with said first and second components.

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12 – 20. (Cancelled).

21. (New) The high frequency interconnect of claim 11, wherein said conductive elastomeric gasket electrically connects components in contact with said conductive elastomeric gasket forming a shield around said compressible bellows interconnect to reduce radio frequency coupling with the one or more additional interconnects.